

ABSTRACT OF THE DISCLOSURE

A turbine blade having improved cooling characteristics is provided. The turbine blade has an airfoil portion having a span, and at least one cooling passageway in the airfoil portion extending from a root portion of the airfoil portion to a tip portion of the airfoil portion. A plurality of turbulation promotion devices are placed in the at least one cooling passageway. The turbulation promotion devices have a  $P/e$  ratio which varies along the span of the airfoil portion, where  $P$  is the pitch between adjacent turbulation promotion devices and  $e$  is the height of the turbulation promotion devices.